




Robert Tibshirani

Professor of Biomedical Data Science and of Statistics

 Curriculum Vitae available Online

Bio

BIO

Robert Tibshirani's main interests are in applied statistics, biostatistics, and data mining. He is co-author of the books "Generalized Additive Models" (with Trevor Hastie, Stanford), "An Introduction to the Bootstrap" (with Brad Efron, Stanford), and "Elements of Statistical Learning" (with Trevor Hastie and Jerry Friedman, Stanford). His current research focuses on problems in biology and genomics, medicine, and industry. With Stanford collaborator Balasubramanian Narasimhan, he also develops software packages for genomics and proteomics.

ACADEMIC APPOINTMENTS

- Professor, Biomedical Data Science
- Professor, Statistics
- Member, Bio-X
- Member, Child Health Research Institute
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Professor, Department of Biomedical Data Science and Department of Statistics, Stanford University, (2015- present)
- Professor, Department of Health Research and Policy and Department of Statistics, Stanford University, (1998-2015)
- Professor, Department of Public Health Sciences and Department of Statistics, University of Toronto, (1994-1998)
- Associate Professor, Department of Statistics, University of Toronto, (1989-1994)
- Associate Professor, Department of Preventive Medicine and Biostatistics, University of Toronto, (1989-1994)
- Assistant Professor, Department of Statistics, University of Toronto, (1985-1989)
- Assistant Professor, Department of Preventive Medicine and Biostatistics, University of Toronto, (1985-1989)

HONORS AND AWARDS

- Doctor Honoris Causa, University of Waterloo (2018)
- Elected Member, National Academy of Sciences (2012)
- Gold Medal, Statistical Society of Canada (2012)
- Alumni Achievement Award, University of Waterloo (2006)
- Fellow, Royal Society of Canada (2001)
- CRM-SSC Prize in Statistics, Statistical Society of Canada (2000)
- E.W. Steacie Memorial Fellowship, Natural Sciences and Engineering Research Council of Canada (1997)

- President's Award, Committee of Presidents of Statistical Societies (1996)
- Guggenheim Fellowship, J. Guggenheim Foundation (1994)
- Fellow, Institute of Mathematical Statistics (1993)
- Fellow, American Statistical Association (1992)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Associate Editor, Annals of Applied Statistics (2006 - present)
- Associate Editor, PLoS Biology (2001 - 2004)
- Member, Screening Panel, National Science Foundation (1999 - 1999)
- Associate Editor, Annals of Statistics (1998 - present)
- Associate Editor, Statistical Science (1995 - present)
- Chair, Committee on Computerization, Institute of Mathematical Statistics (1995 - present)
- Associate Editor, Canadian Journal of Statistics (1995 - 1997)
- Program Chair, Statistical Computing, American Statistical Association (1995 - 1996)
- Annual Meeting Program Chair, Statistical Society of Canada (1994 - 1994)
- Series Editor, Computing and Graphics Monographs, Chapman & Hall (1994 - 1994)
- Council Member, Institute of Mathematical Statistics (1991 - 1994)
- Member, Statistical Sciences Grant Selection Committee, Natural Sciences and Engineering Research Council of Canada (1989 - 1993)
- Associate Editor, Canadian Journal of Statistics (1988 - 1991)
- Associate Editor, Theory and Methods, Journal of the American Statistical Association (1986 - 1995)

PROFESSIONAL EDUCATION

- B.Math., University of Waterloo , Statistics and Computer Science (1979)
- M.Sc., University of Toronto , Statistics (1980)
- Ph.D., Stanford University , Statistics (1984)

LINKS

- Personal Web Site: <https://statistics.stanford.edu/~tibs/>
- Statistics Department Profile: <https://statistics.stanford.edu/people/robert-tibshirani>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research is in applied statistics and biostatistics. I specialize in computer-intensive methods for regression and classification, bootstrap, cross-validation and statistical inference, and signal and image analysis for medical diagnosis.

Teaching

COURSES

2017-18

- Introduction to Statistical Learning: STATS 216 (Win)
- Modern Applied Statistics: Learning: STATS 315A (Win)

2016-17

- Data Science 101: STATS 101 (Aut)
- Introduction to Statistical Learning: STATS 216 (Win)

2015-16

- Introduction to Statistical Modeling: STATS 305 (Aut)

STANFORD ADVISEES

Doctoral (Program)

Gautam Machiraju

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Informatics (Phd Program)
- Immunology (Phd Program)

Publications

PUBLICATIONS

- **Log-ratio Lasso: Scalable, Sparse Estimation for Log-ratio Models.** *Biometrics*
Bates, S., Tibshirani, R.
2018
- **Multicenter Study Using Desorption-Electrospray-Ionization-Mass-Spectrometry Imaging for Breast-Cancer Diagnosis** *ANALYTICAL CHEMISTRY*
Porcari, A. M., Zhang, J., Garza, K. Y., Rodrigues-Peres, R. M., Lin, J. Q., Young, J. H., Tibshirani, R., Nagi, C., Paiva, G. R., Carter, S. A., Sarian, L., Eberlin, M. N., Eberlin, et al
2018; 90 (19): 11324–32
- **Circulating Tumor DNA Measurements As Early Outcome Predictors in Diffuse Large B-Cell Lymphoma.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*
Kurtz, D. M., Scherer, F., Jin, M. C., Soo, J., Craig, A. F., Esfahani, M. S., Chabon, J. J., Stehr, H., Liu, C. L., Tibshirani, R., Maeda, L. S., Gupta, N. K., Khodadoust, et al
2018: JCO2018785246
- **Pharmacogenetics and progression to neovascular age-related macular degeneration-Evidence supporting practice change** *REPLY PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Vavvas, D. G., Small, K. W., Awh, C., Zanke, B. W., Tibshirani, R. J., Kustra, R.
2018; 115 (25): E5640–E5641
- **Noninvasive blood tests for fetal development predict gestational age and preterm delivery** *SCIENCE*
Ngo, T. M., Moufarrej, M. N., Rasmussen, M. H., Camunas-Soler, J., Pan, W., Okamoto, J., Neff, N. F., Liu, K., Wong, R. J., Downes, K., Tibshirani, R., Shaw, G. M., Skotte, et al
2018; 360 (6393): 1133–36
- **Methods for analyzing matched designs with double controls: excess risk is easily estimated and misinterpreted when evaluating traffic deaths** *JOURNAL OF CLINICAL EPIDEMIOLOGY*
Redelmeier, D. A., Tibshirani, R. J.
2018; 98: 117–22
- **Some methods for heterogeneous treatment effect estimation in high dimensions** *STATISTICS IN MEDICINE*
Powers, S., Qian, J., Jung, K., Schuler, A., Shah, N. H., Hastie, T., Tibshirani, R.
2018; 37 (11): 1767–87
- **Single-cell developmental classification of B cell precursor acute lymphoblastic leukemia at diagnosis reveals predictors of relapse.** *Nature medicine*
Good, Z., Sarno, J., Jager, A., Samusik, N., Aghaepour, N., Simonds, E. F., White, L., Lacayo, N. J., Fantl, W. J., Fazio, G., Gaipa, G., Biondi, A., Tibshirani, et al
2018; 24 (4): 474–83
- **Post-selection inference for 1-penalized likelihood models** *CANADIAN JOURNAL OF STATISTICS-REVUE CANADIENNE DE STATISTIQUE*

- Taylor, J., Tibshirani, R.
2018; 46 (1): 41–61
- **CFH and ARMS2 genetic risk determines progression to neovascular age-related macular degeneration after antioxidant and zinc supplementation** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Vavvas, D. G., Small, K. W., Awh, C. C., Zanke, B. W., Tibshirani, R. J., Kustra, R.
2018; 115 (4): E696–E704
 - **A General Framework for Estimation and Inference From Clusters of Features** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*
Reid, S., Taylor, J., Tibshirani, R.
2018; 113 (521): 280–93
 - **Distinguishing malignant from benign microscopic skin lesions using desorption electrospray ionization mass spectrometry imaging.** *Proceedings of the National Academy of Sciences of the United States of America*
Margulis, K., Chiou, A. S., Aasi, S. Z., Tibshirani, R. J., Tang, J. Y., Zare, R. N.
2018
 - **Food allergy and omics.** *The Journal of allergy and clinical immunology*
Dhondalay, G. K., Rael, E., Acharya, S., Zhang, W., Sampath, V., Galli, S. J., Tibshirani, R., Boyd, S. D., Maecker, H., Nadeau, K. C., Andorf, S.
2018; 141 (1): 20–29
 - **DRUG-NEM: Optimizing drug combinations using single-cell perturbation response to account for intratumoral heterogeneity.** *Proceedings of the National Academy of Sciences of the United States of America*
Anchang, B., Davis, K. L., Fienberg, H. G., Williamson, B. D., Bendall, S. C., Karacosta, L. G., Tibshirani, R., Nolan, G. P., Plevritis, S. K.
2018; 115 (18): E4294–E4303
 - **SELECTING THE NUMBER OF PRINCIPAL COMPONENTS: ESTIMATION OF THE TRUE RANK OF A NOISY MATRIX** *ANNALS OF STATISTICS*
Choi, Y., Taylor, J., Tibshirani, R.
2017; 45 (6): 2590–2617
 - **KLHL6 Is Preferentially Expressed in Germinal Center-Derived B-Cell Lymphomas** *AMERICAN JOURNAL OF CLINICAL PATHOLOGY*
Kunder, C. A., Roncador, G., Advani, R. H., Gualco, G., Bacchi, C. E., Sabile, J. M., Lossos, I. S., Nie, K., Tibshirani, R., Green, M. R., Alizadeh, A. A., Natkunam, Y.
2017; 148 (6): 465–76
 - **Big data modeling to predict platelet usage and minimize wastage in a tertiary care system** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Guan, L., Tian, X., Gombar, S., Zemek, A. J., Krishnan, G., Scott, R., Narasimhan, B., Tibshirani, R. J., Pham, T. D.
2017; 114 (43): 11368–73
 - **Post-selection point and interval estimation of signal sizes in Gaussian samples** *CANADIAN JOURNAL OF STATISTICS-REVUE CANADIENNE DE STATISTIQUE*
Reid, S., Taylor, J., Tibshirani, R.
2017; 45 (2): 128-148
 - **Chemical Space Mimicry for Drug Discovery** *JOURNAL OF CHEMICAL INFORMATION AND MODELING*
Yuan, W., Jiang, D., Nambiar, D. K., Liew, L. P., Hay, M. P., Bloomstein, J., Lu, P., Turner, B., Le, Q., Tibshirani, R., Khatri, P., Moloney, M. G., Koong, et al
2017; 57 (4): 875-882
 - **Diagnosis of prostate cancer by desorption electrospray ionization mass spectrometric imaging of small metabolites and lipids** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Banerjee, S., Zare, R. N., Tibshirani, R. J., Kunder, C. A., Nolley, R., Fan, R., Brooks, J. D., Sonn, G. A.
2017; 114 (13): 3334-3339
 - **Landscape of monoallelic DNA accessibility in mouse embryonic stem cells and neural progenitor cells.** *Nature genetics*
Xu, J., Carter, A. C., Gendrel, A., Attia, M., Loftus, J., Greenleaf, W. J., Tibshirani, R., Heard, E., Chang, H. Y.
2017; 49 (3): 377-386
 - **Long-term course of patients with primary ocular adnexal MALT lymphoma: a large single-institution cohort study** *BLOOD*
Desai, A., Joag, M. G., Lekakis, L., Chapman, J. R., Vega, F., Tibshirani, R., Tse, D., Markoe, A., Lossos, I. S.

- 2017; 129 (3): 324-332
- **An immune clock of human pregnancy.** *Science immunology*
Aghaeepour, N., Ganio, E. A., Mcilwain, D., Tsai, A. S., Tingle, M., Van Gassen, S., Gaudilliere, D. K., Baca, Q., McNeil, L., Okada, R., Ghaemi, M. S., Furman, D., Wong, et al
2017; 2 (15)
 - **An Ordered Lasso and Sparse Time-Lagged Regression** *TECHNOMETRICS*
Tibshirani, R., Suo, X.
2016; 58 (4): 415-423
 - **High-dimensional regression adjustments in randomized experiments.** *Proceedings of the National Academy of Sciences of the United States of America*
Wager, S., Du, W., Taylor, J., Tibshirani, R. J.
2016
 - **Cardiolipins Are Biomarkers of Mitochondria-Rich Thyroid Oncocytic Tumors.** *Cancer research*
Zhang, J., Yu, W., Ryu, S. W., Lin, J., Buentello, G., Tibshirani, R., Suliburk, J., Eberlin, L. S.
2016: -?
 - **Data Shared Lasso: A novel tool to discover uplift** *COMPUTATIONAL STATISTICS & DATA ANALYSIS*
Gross, S. M., Tibshirani, R.
2016; 101: 226-235
 - **Pancreatic Cancer Surgical Resection Margins: Molecular Assessment by Mass Spectrometry Imaging.** *PLoS medicine*
Eberlin, L. S., Margulis, K., Planell-Mendez, I., Zare, R. N., Tibshirani, R., Longacre, T. A., Jalali, M., Norton, J. A., Poultsides, G. A.
2016; 13 (8)
 - **Pathophysiological significance and therapeutic targeting of germinal center kinase in diffuse large B-cell lymphoma.** *Blood*
Matthews, J. M., Bhatt, S., Patricelli, M. P., Nomanbhoy, T. K., Jiang, X., Natkunam, Y., Gentles, A. J., Martinez, E., Zhu, D., Chapman, J. R., Cortizas, E., Shyam, R., Chinichian, et al
2016; 128 (2): 239-248
 - **Exact Post-Selection Inference for Sequential Regression Procedures** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*
Tibshirani, R. J., Taylor, J., Lockhart, R., Tibshirani, R.
2016; 111 (514): 600-614
 - **INFERENCE IN ADAPTIVE REGRESSION VIA THE KAC-RICE FORMULA** *ANNALS OF STATISTICS*
Taylor, J. E., Loftus, J. R., Tibshirani, R. J.
2016; 44 (2): 743-770
 - **Sparse regression and marginal testing using cluster prototypes.** *Biostatistics*
Reid, S., Tibshirani, R.
2016; 17 (2): 364-376
 - **Successful immunotherapy induces previously unidentified allergen-specific CD4+ T-cell subsets.** *Proceedings of the National Academy of Sciences of the United States of America*
Ryan, J. F., Hovde, R., Glanville, J., Lyu, S., Ji, X., Gupta, S., Tibshirani, R. J., Jay, D. C., Boyd, S. D., Chinthrajah, R. S., Davis, M. M., Galli, S. J., Maecker, et al
2016; 113 (9): E1286-95
 - **Sequential selection procedures and false discovery rate control** *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-STATISTICAL METHODOLOGY*
G'Sell, M. G., Wager, S., Chouldechova, A., Tibshirani, R.
2016; 78 (2): 423-444
 - **A STUDY OF ERROR VARIANCE ESTIMATION IN LASSO REGRESSION** *STATISTICA SINICA*
Reid, S., Tibshirani, R., Friedman, J.
2016; 26 (1): 35-67
 - **CUSTOMIZED TRAINING WITH AN APPLICATION TO MASS SPECTROMETRIC IMAGING OF CANCER TISSUE** *ANNALS OF APPLIED STATISTICS*
Powers, S., Hastie, T., Tibshirani, R.

2015; 9 (4): 1709-1725

- **A Permutation Approach to Testing Interactions for Binary Response by Comparing Correlations Between Classes** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*
Simon, N., Tibshirani, R.
2015; 110 (512): 1707-1716
- **A component lasso** *CANADIAN JOURNAL OF STATISTICS-REVUE CANADIENNE DE STATISTIQUE*
Hussami, N., Tibshirani, R. J.
2015; 43 (4): 624-646
- **The Radiogenomic Risk Score: Construction of a Prognostic Quantitative, Noninvasive Image-based Molecular Assay for Renal Cell Carcinoma** *RADIOLOGY*
Jamshidi, N., Jonasch, E., Zapala, M., Korn, R. L., Aganovic, L., Zhao, H., Sitaram, R. T., Tibshirani, R. J., Banerjee, S., Brooks, J. D., Ljungberg, B., Kuo, M. D.
2015; 277 (1): 114-123
- **Statistical learning and selective inference** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Taylor, J., Tibshirani, R. J.
2015; 112 (25): 7629-7634
- **Collaborative regression** *BIOSTATISTICS*
Gross, S. M., Tibshirani, R.
2015; 16 (2): 326-338
- **CONVEX HIERARCHICAL TESTING OF INTERACTIONS** *ANNALS OF APPLIED STATISTICS*
Bien, J., Simon, N., Tibshirani, R.
2015; 9 (1): 27-42
- **Molecular subtyping for clinically defined breast cancer subgroups** *BREAST CANCER RESEARCH*
Zhao, X., Rodland, E. A., Tibshirani, R., Plevritis, S.
2015; 17
- **Pancancer analysis of DNA methylation-driven genes using MethylMix** *GENOME BIOLOGY*
Gevaert, O., Tibshirani, R., Plevritis, S. K.
2015; 16
- **Pancancer analysis of DNA methylation-driven genes using MethylMix.** *Genome biology*
Gevaert, O., Tibshirani, R., Plevritis, S. K.
2015; 16: 17-?
- **A Simple Method for Estimating Interactions Between a Treatment and a Large Number of Covariates** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*
Tian, L., Alizadeh, A. A., Gentles, A. J., Tibshirani, R.
2014; 109 (508): 1517-1532
- **Quantitative SD-OCT imaging biomarkers as indicators of age-related macular degeneration progression.** *Investigative ophthalmology & visual science*
de Sisternes, L., Simon, N., Tibshirani, R., Leng, T., Rubin, D. L.
2014; 55 (11): 7093-7103
- **Alteration of the lipid profile in lymphomas induced by MYC overexpression.** *Proceedings of the National Academy of Sciences of the United States of America*
Eberlin, L. S., Gabay, M., Fan, A. C., Gouw, A. M., Tibshirani, R. J., Felsher, D. W., Zare, R. N.
2014; 111 (29): 10450-10455
- **Automated identification of stratifying signatures in cellular subpopulations** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Bruggner, R. V., Bodenmiller, B., Dill, D. L., Tibshirani, R. J., Nolan, G. P.
2014; 111 (26): E2770-E2777
- **Active idiotypic vaccination versus control immunotherapy for follicular lymphoma.** *Journal of clinical oncology*

- Levy, R., Ganjoo, K. N., Leonard, J. P., Vose, J. M., Flinn, I. W., Ambinder, R. F., Connors, J. M., Berinstein, N. L., Belch, A. R., Bartlett, N. L., Nichols, C., Emmanouilides, C. E., Timmerman, et al
2014; 32 (17): 1797-1803
- **Regularization Paths for Conditional Logistic Regression: The clogitL1 Package** *JOURNAL OF STATISTICAL SOFTWARE*
Reid, S., Tibshirani, R.
2014; 58 (12): 1-23
 - **Sensitivity analysis for inference with partially identifiable covariance matrices** *COMPUTATIONAL STATISTICS*
G'Sell, M. G., Shen-Orr, S. S., Tibshirani, R.
2014; 29 (3-4): 529-546
 - **LMO2 and BCL6 are associated with improved survival in primary central nervous system lymphoma** *BRITISH JOURNAL OF HAEMATOLOGY*
Lossos, C., Bayraktar, S., Weinzierl, E., Younes, S. F., Hosein, P. J., Tibshirani, R. J., Posthumus, J. S., DeAngelis, L. M., Raizer, J., Schiff, D., Abrey, L., Natkunam, Y., Lossos, et al
2014; 165 (5): 640-648
 - **A multicentre study of primary breast diffuse large B-cell lymphoma in the rituximab era** *BRITISH JOURNAL OF HAEMATOLOGY*
Hosein, P. J., Maragulia, J. C., Salzberg, M. P., Press, O. W., Habermann, T. M., Vose, J. M., Bast, M., Advani, R. H., Tibshirani, R., Evens, A. M., Islam, N., Leonard, J. P., Martin, et al
2014; 165 (3): 358-363
 - **A SIGNIFICANCE TEST FOR THE LASSO** *ANNALS OF STATISTICS*
Lockhart, R., Taylor, J., Tibshirani, R. J., Tibshirani, R.
2014; 42 (2): 413-468
 - **Molecular assessment of surgical-resection margins of gastric cancer by mass-spectrometric imaging.** *Proceedings of the National Academy of Sciences of the United States of America*
Eberlin, L. S., Tibshirani, R. J., Zhang, J., Longacre, T. A., Berry, G. J., Bingham, D. B., Norton, J. A., Zare, R. N., Poultides, G. A.
2014; 111 (7): 2436-2441
 - **Systems analysis of sex differences reveals an immunosuppressive role for testosterone in the response to influenza vaccination.** *Proceedings of the National Academy of Sciences of the United States of America*
Furman, D., Hejblum, B. P., Simon, N., Jojic, V., Dekker, C. L., Thiébaud, R., Tibshirani, R. J., Davis, M. M.
2014; 111 (2): 869-874
 - **Increasing value and reducing waste in research design, conduct, and analysis.** *Lancet*
Ioannidis, J. P., Greenland, S., Hlatky, M. A., Khoury, M. J., Macleod, M. R., Moher, D., Schulz, K. F., Tibshirani, R.
2014; 383 (9912): 166-175
 - **A shared transcriptional program in early breast neoplasias despite genetic and clinical distinctions** *GENOME BIOLOGY*
Brunner, A. L., Li, J., Guo, X., Sweeney, R. T., Varma, S., Zhu, S. X., Li, R., Tibshirani, R., West, R. B.
2014; 15 (5)
 - **Finding consistent patterns: A nonparametric approach for identifying differential expression in RNA-Seq data** *STATISTICAL METHODS IN MEDICAL RESEARCH*
Li, J., Tibshirani, R.
2013; 22 (5): 519-536
 - **Identification of gene microarray expression profiles in patients with chronic graft-versus-host disease following allogeneic hematopoietic cell transplantation.** *Clinical immunology*
Kohrt, H. E., Tian, L., Li, L., Alizadeh, A. A., Hsieh, S., Tibshirani, R. J., Strober, S., Sarwal, M., Lowsky, R.
2013; 148 (1): 124-135
 - **A LASSO FOR HIERARCHICAL INTERACTIONS** *ANNALS OF STATISTICS*
Bien, J., Taylor, J., Tibshirani, R.
2013; 41 (3): 1111-1141
 - **A Sparse-Group Lasso** *JOURNAL OF COMPUTATIONAL AND GRAPHICAL STATISTICS*
Simon, N., Friedman, J., Hastie, T., Tibshirani, R.
2013; 22 (2): 231-245

- **Classification of patients from time-course gene expression** *BIOSTATISTICS*
Zhang, Y., Tibshirani, R., Davis, R.
2013; 14 (1): 87-98
- **Scientific research in the age of omics: the good, the bad, and the sloppy** *JOURNAL OF THE AMERICAN MEDICAL INFORMATICS ASSOCIATION*
Witten, D. M., Tibshirani, R.
2013; 20 (1): 125-127
- **Coronary risk assessment among intermediate risk patients using a clinical and biomarker based algorithm developed and validated in two population cohorts** *CURRENT MEDICAL RESEARCH AND OPINION*
Cross, D. S., McCarty, C. A., Hytopoulos, E., Beggs, M., Nolan, N., Harrington, D. S., Hastie, T., Tibshirani, R., Tracy, R. P., Psaty, B. M., McClelland, R., Tsao, P. S., Quertermous, et al
2012; 28 (11): 1819-1830
- **Genome-wide Measurement of RNA Folding Energies** *MOLECULAR CELL*
Wan, Y., Qu, K., Ouyang, Z., Kertesz, M., Li, J., Tibshirani, R., Makino, D. L., Nutter, R. C., Segal, E., Chang, H. Y.
2012; 48 (2): 169-181
- **Normalization, testing, and false discovery rate estimation for RNA-sequencing data** *BIOSTATISTICS*
Li, J., Witten, D. M., Johnstone, I. M., Tibshirani, R.
2012; 13 (3): 523-538
- **STANDARDIZATION AND THE GROUP LASSO PENALTY** *STATISTICA SINICA*
Simon, N., Tibshirani, R.
2012; 22 (3): 983-1001
- **Autoantibody Epitope Spreading in the Pre-Clinical Phase Predicts Progression to Rheumatoid Arthritis** *PLOS ONE*
Sokolove, J., Bromberg, R., Deane, K. D., Lahey, L. J., Derber, L. A., Chandra, P. E., Edison, J. D., Gilliland, W. R., Tibshirani, R. J., Norris, J. M., Holers, V. M., Robinson, W. H.
2012; 7 (5)
- **DEGREES OF FREEDOM IN LASSO PROBLEMS** *ANNALS OF STATISTICS*
Tibshirani, R. J., Taylor, J.
2012; 40 (2): 1198-1232
- **In situ vaccination against mycosis fungoides by intratumoral injection of a TLR9 agonist combined with radiation: a phase 1/2 study** *BLOOD*
Kim, Y. H., Gratzinger, D., Harrison, C., Brody, J. D., Czerwinski, D. K., Ai, W. Z., Morales, A., Abdulla, F., Xing, L., Navi, D., Tibshirani, R. J., Advani, R. H., Lingala, et al
2012; 119 (2): 355-363
- **Strong rules for discarding predictors in lasso-type problems** *J. Royal stat. Assoc B*
robert tibshirani, bien, friedman, Hastie, Simon, Taylor, Tibshirani
2012; 74: 245-266
- **Inference with transposable data: modelling the effects of row and column correlations** *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B- STATISTICAL METHODOLOGY*
Allen, G. I., Tibshirani, R.
2012; 74: 721-743
- **Strong rules for discarding predictors in lasso-type problems** *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-STATISTICAL METHODOLOGY*
Tibshirani, R., Bien, J., Friedman, J., Hastie, T., Simon, N., Taylor, J., Tibshirani, R. J.
2012; 74: 245-266
- **Transcriptional profiling of long non-coding RNAs and novel transcribed regions across a diverse panel of archived human cancers** *GENOME BIOLOGY*
Brunner, A. L., Beck, A. H., Edris, B., Sweeney, R. T., Zhu, S. X., Li, R., Montgomery, K., Varma, S., Gilks, T., Guo, X., Foley, J. W., Witten, D. M., Giacomini, et al
2012; 13 (8)
- **Sparse estimation of a covariance matrix** *BIOMETRIKA*
Bien, J., Tibshirani, R. J.

2011; 98 (4): 807-820

- **PROTOTYPE SELECTION FOR INTERPRETABLE CLASSIFICATION** *ANNALS OF APPLIED STATISTICS*
Bien, J., Tibshirani, R.
2011; 5 (4): 2403-2424
- **A fused lasso latent feature model for analyzing multi-sample aCGH data** *BIOSTATISTICS*
Nowak, G., Hastie, T., Pollack, J. R., Tibshirani, R.
2011; 12 (4): 776-791
- **Hierarchical Clustering With Prototypes via Minimax Linkage** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*
Bien, J., Tibshirani, R.
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